Application No.: 10/588,376   Attorney Docket No. 1794-0187PUS1
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Amendments to the Claims

1. (Currently Amended)   A computerized design parameter managing method for managing design parameters used respectively in a plurality of different CAD systems, ~~characterized by that~~ comprising:

performing computerized separation of CAD data used, respectively, in the plurality of CAD systems into geometrical information and attribute information;

performing computerized setting up of arbitrary design parameters among ~~the~~ design parameters used respectively in the plurality of different CAD systems ~~are made to be~~ into a virtually shared state among the plurality of different CAD systems;

performing computerized correlation of the separated attribute information with the parameters set up into the virtually shared state;

performing computerized accessing and recognizing of the separated attribute information correlated with the parameters set up into the virtually shared state among CAD data used respectively in the respective CAD systems;

performing computerized management of geometrical information of the parameters set up into the virtually shared state which are correlated with the accessed and recognized attribute information as objects with data compatibility in the plurality of different CAD systems;

performing management of geometrical information other than that of the parameters set up into the virtually shared state which are correlated with the accessed and recognized attribute information as objects without data compatibility in the plurality of different CAD systems; and

displaying the geometrical information for use in development of a product.

~~and the design parameters in the virtually shared state are managed independently from the~~

~~design parameters in no virtually shared state.~~

2. (Currently Amended) A computerized design parameter managing system for managing

design parameters used respectively in a plurality of different CAD systems, ~~characterized by~~

~~having~~ comprising:

a computerized system component for separating CAD data used respectively in the

plurality of different CAD systems into geometrical information and attribute information

a computerized system component ~~a setup means~~ for setting up arbitrary design parameters

among the design parameters used respectively in the plurality of different CAD systems into a

virtually shared state among the plurality of different CAD systems;

a computerized system component for correlating the separated attribute data with the

parameters set up into the virtually shared state;

a computerized system component for accessing and recognizing the separated attribute data

correlated with the parameters set up into the virtually shared state among the CAD data used

respectively in the plurality of different CAD systems;

a computerized system component for managing geometrical information of the parameters

set up into the virtually shared state which are correlated with the separated attribute data as objects

with data compatibility in the plurality of different CAD systems; and

a computerized system component ~~managing means~~ for managing geometrical information

other than that of the parameters set up into the virtually shared state which are correlated with the

separated attribute information as objects without data compatibility in the plurality of different

CAD systems ~~independently the design parameters in the virtually-shared state set up by the setup~~

~~means from the design parameters in no virtually shared state~~; and

a display for displaying the geometrical information for use in development of a product.

3. (Currently Amended)   ~~A~~ The computerized design parameter managing system ~~for~~

~~managing design parameters used respectively in a plurality of different CAD systems~~ as claimed in

claim 2, ~~characterized by having~~ further comprising:

a computerized registration ~~means~~ component for registering arbitrary design parameters

among the design parameters used respectively in the plurality of different CAD systems as the

shared parameters among the plurality of different CAD systems to a database;

a computerized history managing ~~means~~ component for managing a history between the

design parameters used respectively in the plurality of different CAD systems and the shared

parameters registered to the database by means of the registration means; and

a computerized finite difference managing ~~means~~ component for managing the finite

differences between the design parameters used respectively in the plurality of different CAD

systems and the shared parameters registered to the database by the registration means based on the

history managed by the history managing means.

4. (Currently Amended)   The computerized design parameter managing system as

claimed in claim 3, ~~characterized by~~ further ~~having~~ comprising:

a computerized notification means component for notifying the finite differences managed

by the finite difference managing means to the plurality of different CAD systems.

5. (Currently Amended)   The computerized design parameter managing system as

claimed in claim 2, characterized by further having comprising:

a computerized preparation means component of capable of adapted to prepare preparing

three-dimensional data in a condition wherein logical electric design information has been

correlated to physical three-dimensional configuration information.

6. (Currently Amended)   The computerized design parameter managing system as

claimed in claim 2, characterized by further having comprising:

a computerized component means for preparing and managing an electronic parts data

library which has been modeled in a three-dimensional configuration; and

wherein the three-dimensional electronic parts data library being are arranged so as to have

parts origin information and material physical property information and so as to correlate the parts

origin information and the material physical property information with the shared parameters set up

in the virtually shared state.

7. (Currently Amended)   A computer program embodied in or on a computerized

readable medium for executing the design parameter managing method as claimed in claim 1 with

respect to a computer.

8. (Currently Amended)   A ~~program to function a computer as the~~ computerized design parameter managing system as claimed in any one of claims 2, 3, 4, 5 and 6, further comprising a computer program embodied in or on a computerized readable medium programmed for use in the design parameter managing system.

9. (Canceled)